NEW DAM PLAN REVIEW CHECKLIST

For dams, embankments or other water retention structures

	Owner Name: Home Phone:
Add	ress: Work Phone:
fire T o	cation Information - A sketch or map that clearly indicates the location of the project. The map should include e numbers or other landmarks that will enable staff to locate the project site. ownN, RangeE/W, Section, Q, QQ, QQQ nme of Dam: Name of Waterway:
Nam	ne of Designer: Agency/Firm :
Phor	ne: Fax: email:
Add	ress:
design	lowing information is required for review of dam plans. Please check all the information that is included in the submitted package. Where a blank line has been provided, please insert the information for ease of entry into the database. eral Design Information
	Purpose of dam
_	Drainage area (square miles)
	Planned pool elevation Q ₁₀₀ water surface elevation
	Normal pool surface area (acres) Water surface area at maximum pool (acres)
	Normal storage (from bottom of impoundment to planned pool) (acre-feet)
	Maximum storage (from bottom of impoundment to point of overtopping) (acre-feet)
	Structural height (difference between design elevation and elevation of streambed at downstream toe) (feet)
	Hydraulic height (difference between normal pool elevation and tailwater elevation) (feet)
	Design storm frequency/duration (must meet minimum from appropriate standard) (year)/(hour)/
	Design discharge (reservoir routing may reduce peak spillway outflow) (cfs).
	Include hydrologic and hydraulic calculations with the submittal.
Outl	et/Spillway Information
	Outlet structure type, dimensions, elevations, joint treatment, corrosion protection, shown on plans/specifications.
	Principle spillway capacity* (cfs) Total spillway capacity* (cfs)
*	calculated at point of embankment overtopping
	Auxiliary spillway location, elevations, bottom width, side slopes, materials, shown on plans/specifications
	Auxiliary spillway constructed in natural undisturbed soils or show stability/erosion analysis
	Are there drawdown facilities? Is there access for gate operation?
	Is there a trash rack? Is there an anti-vortex device?

Emb	ankment Information	
	Elevation (design elevation) of top of embankment (low point in embankment crest)	
	Elevation of stream bottom at downstream toe of embankment.	
	Length (ft) Top width (ft) Side slopes (us): (ds): Fill volume (yd^3)	
	Embankment fill soil type, compaction method and maximum lift thickness shown on plans/specifications	
	Foundation soil type and preparation shown on plans/specifications	
	Depth of peat at structure or center of dike (if applicable)	
	Seepage control measures (cutoff walls, toe drains, anti-seep collars, french drains, slurry trench, clay core)	
Other Considerations		
	Benchmark description for all elevations (include one on dam and one off dam benchmark location)	
	Description of construction sequence (coffer dams, water diversion, etc.)	
	Description/plan of construction erosion protection measures.	
	Description of post-construction scour protection at outlet structures and on embankments	
	Clearing and grubbing plan for impoundment area (if necessary)	
	Will normal pond surface flow lands not owned by the applicant? $\underline{Yes*/No}$	
	Will embankment affect floodplain on adjacent property (increase $>= 0.01$ ' off owner property)? $\underline{Yes*/No}$	
*	If yes, must have secured appropriate flowage/flooding easement or have affected property owner(s) as co-applicant(s)	
	Will embankment affect floodplain elevation in adjacent watershed during 100-year event? Yes* / No	
*	Prepare encroachment analysis and secured appropriate flooding easement from affected property owner(s)	
	Projected minimum flows and water quality of discharge (if applicable)	
	Warning signs and portage route locations if necessary (structures on navigable waterway with permanent pool)	
	Request for waivers and waiver from design standard criteria included	
Additional information required for large dams (must comply with all requirements of NR 333)		
	Stamp indicating preparation by a Wisconsin registered P.E.	
	Regional flood flows calculated per NR116.07 (3)	
	Determination of floodplain boundary with and without dam per NR116.07(4)	
	Stability analysis (for embankment with side slopes steeper than 2.5/1 and spillway structures, other than culverts)	
	Identification of hydraulic shadow and calculations for dam break analysis per NR 333 and NR 116	
	Dam hazard rating determined per NR333.06	
	Operation, Inspection and Maintenance Plan and Emergency Action Plan	
٥	Cost estimate for construction.	
Sign	Signature (individual preparing form): Date:	
For DNR use only Docket Number: Financial Responsibility Consideration:		